









PROTON-CONDUCTIVE POLYMER FILM AND PROCESS FOR PRODUCING THE SAME

Patent number: WO02062896
Publication date: 2002-08-15
Inventor: KUROMATSU HIDEKAZU [JP]; NAMURA KIYOYUKI [JP]
Applicant: KANEGAFUCHI CHEMICAL IND [JP]; KUROMATSU HIDEKAZU [JP]; NAMURA KIYOYUKI [JP]
Classification:
- International: C08L81/00; C08J5/22; C08G75/00; C08J7/00; C08J7/02; H01M8/02
- european: C08G75/18; C08G75/20; C08L81/02; C08L81/06; H01M8/02E2; H01M8/10E2
Application number: WO2002JP00875 20020204
Priority number(s): JP20010027973 20010205; JP20010234606 20010802; JP20010328596 20011026

Also published as:

 EP1380619 (A1)
 US2004072045 (A1)
 CA2437135 (A1)

Cited documents:

 US4110265
 WO9910165
 JP2000080166
 JP10239523
 JP6211992

Abstract of WO02062896

A proton-conductive polymer film made of a polymer comprising repeating structural units represented by the following general formula (1) in which the aromatic units have been partly substituted with proton-conductive substituents, the film having a solubility in methanol at room temperature of less than 0.01 wt.% or having a solubility in N-methyl-2-pyrrolidone at 5 DEG C of less than 5 wt.%. In the formula, Ar1 is a divalent aromatic unit and x is an integer of 0 to 2. Also provided is a process by which a proton-conductive polymer film having properties making the film usable in solid polymer electrolyte fuel cells is obtained in a simple manner which attains a substantial reduction in production cost.

